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Mazdoor Kisan Shakti Sangathan

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IS 12522 (1988): Rubber Mallets [PGD 6: Earth, Metal And Wood Working Hand Tools]

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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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Indian Standard

## SPECIFICATION FOR RUBBER MALLETS

**1. Scope** — Covers the dimensions and other requirements of rubber mallets.

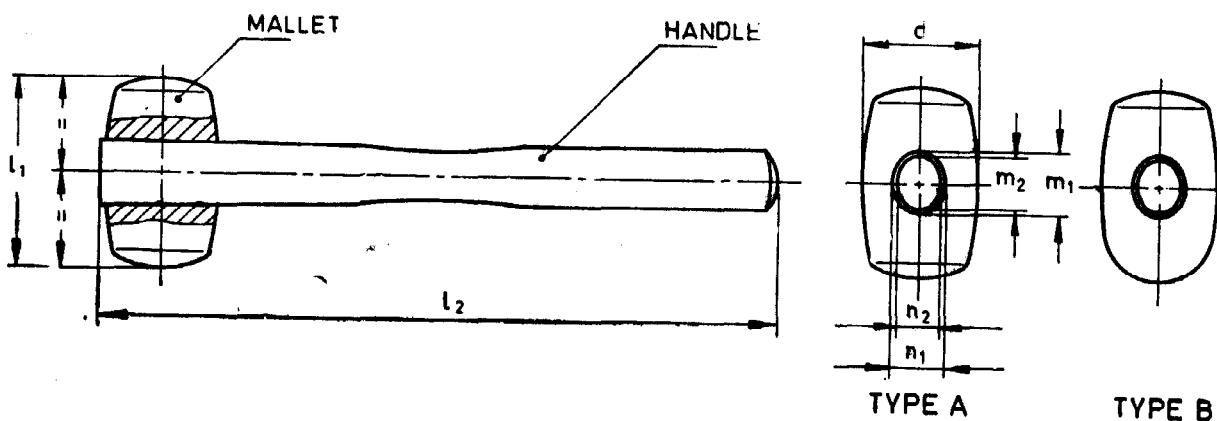
**2. Types**

- a) *Type A* — Symmetrical rubber mallets, and
- b) *Type B* — Unsymmetrical rubber mallets.

**3. Dimensions** — Dimensions for Type A and Type B rubber mallets shall be as given in Table 1.

TABLE 1 DIMENSIONS FOR RUBBER MALLETS

All dimensions in millimetres.



Type	Nominal Size	Mass g	Tolerance on Mass g	Mallet						Length of Handle / <sub>2</sub>
				d	l <sub>1</sub>	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	
A	100	100	± 10	40	80	22	18	17	14	260
	200	250	± 15	54	90	29	25	24	20	320
	400	390	± 25	64	113	31	27	26	22	340
	600	590	± 40	74	127	36	30	30	24	300
	900	940	± 60	90	139	36	30	30	24	380

**Note** — Mass specified is for mallet head only and it does not include that of the handle.

**4. Material**

**4.1 Mallet Head** — Shall be made from natural rubber having specific gravity 12.5, *Max* and meeting the requirements laid down in 5.

**4.2 Handle** — Shall conform to the requirements of Class 5 of IS : 620-1975 'General requirements for wooden tool handles (*third revision*)', or as agreed between the manufacturer and the purchaser.

**5. Hardness** — Rubber mallets shall be of following two different hardness grades:

- a) 66 Shore A, *Min*; and
- b) 90 Shore A, *Min*.

**6. Designation** — Rubber mallets shall be designated by its commonly used name, type, nominal size, hardness and number of this standard.

*Example* — Rubber mallet, of nominal size 400, Type A, having hardness 90 Shore A, shall be designated as:

Rubber Mallet 400 A 90 IS : 12522

## 7. General Requirements

**7.1** The mallet heads shall be well shaped and free from cracks, roughness and other manufacturing defects.

**7.2** The handles should be suitably polished, lacquered or coated with varnish.

**7.2.1** Rubber mallets may also be supplied without handles subject to agreement between the purchaser and the supplier.

## 8. Sampling

**8.1 Lot** — All rubber mallets of same type and size, manufactured from the same material under similar conditions of production shall be grouped together to constitute a lot.

**8.2** In order to ascertain the conformity of the lot, the procedure for sampling inspection as given in IS : 2500 ( Part 1 )-1973 'Sampling inspection tables : Part 1 Inspection by attributes and by count of defects (*first revision*)' shall be followed. For various characteristics, the sampling procedure as given in 8.2.1 and 8.2.2 shall be followed.

**8.2.1** For dimensions and general requirements, the single sampling plan with Inspection Level III and Acceptable Quality Level ( AQL ) of 4 percent as given in Tables 1 and 2 of IS : 2500 ( Part 1 )-1973 shall be followed.

**8.2.2** For hardness, the single sampling plan with Inspection Level I and Acceptable Quality Level ( AQL ) of 4 percent as given in Tables 1 and 2 of IS : 2500 ( Part 1 )-1973 shall be followed.

**9. Marking** — Rubber mallets shall be marked with nominal size, hardness grade, and manufacturer's name, initials and/or recognized trade-mark.

**9.1 Standard Marking** — Details available with the Bureau of Indian Standards.

## EXPLANATORY NOTE

Selection of symmetrical shape ( Type A ) and unsymmetrical shape ( Type B ) rubber mallets which are used for panel beating, and covered in this standard, depends on the basis of actual needs of the consumers. The choice of the type of rubber for the mallet head is left to the discretion of the manufacturers, but meeting the hardness requirements.

While preparing this specification, assistance has been taken from DIN 5129-1971 'Rubber mallets', issued by Deutsches Institut für Normung ( DIN ).